

China's first mineral  
graphene fiber



2021

# Graphene far infrared antiseptic therapy socks

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Meet the new concept of green and  
healthy life of consumers



# CONCENTS

1. What is graphene ?
2. What are graphene fibers ?
3. Graphene far infrared antiseptic therapy socks
4. contact



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# What is graphene ?



# What is graphene?



Excellent electrical  
conductivity

Excellent thermal  
conductivity

Good optical  
properties

Very good  
flexibility

In 2004, Geim and Novosélov et al. from the University of Manchester discovered graphene composed of a single layer of carbon atoms, which attracted much attention as a new carbon material. Graphene, with its unique electronic, mechanical, optical and other properties, is expected to be widely used in the fields of transistors, solar cells, sensors, lithium ion batteries, supercapacitors, thermal and cooling materials, electric heating film, field emission and catalyst carriers.

In recent years, graphene has been widely used in the textile field, and the preparation of high-performance textile fibers and functional finishing of textiles by graphene has become a research hotspot in the industry. Graphene fiber has antibacterial, mite resistance, heat resistance, cutting resistance, antistatic, ultraviolet, far-infrared heat resistance and conduction cooling and other special functions, can be widely used in fabrics, clothing, home textiles, knitting and other textiles. Various kinds of graphene fibers, yarns and fabric products have attracted the attention of the industry.



**What are graphene  
fibers ?**



# What are graphene fibers



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## Graphene fibre

A functional fiber -- graphene fiber. Graphene fibers are made by physically and chemically weaving graphene into a solution of man-made fibers. Graphene fibers have excellent electrical and mechanical properties, showing good application prospects in many fields. In addition to the conventional characteristics of general fibers, graphene fibers also have the powerful body temperature to generate far infrared to promote microcirculation, which exceeds the international advanced level. It is known as "epoch-making revolutionary fiber" with antibacterial and skin friendly, moisture absorption, anti-ultraviolet and anti-static functions.



## Graphene yarn

Graphene yarn has many features such as anti-static, anti-radiation, anti-ultraviolet, anti-bacteria, far-infrared, high toughness, and 20% elasticity, which make up for the deficiency of traditional textile fibers.

# Applications of graphene in the textile field

## Graphene fibre

### Conductive fabric

Graphene is the material with the lowest resistivity at present. Combining graphene with fabric, excellent antistatic, electromagnetic shielding or conductive fabrics can be prepared. It can be applied to special industries, such as blending graphene with chemical fiber, and it is possible to prepare mining professional clothing fabrics with excellent antistatic properties.

### Close skin fabric

Graphene has excellent antibacterial properties and far-infrared function at low temperature. When graphene is finished on the fabric, antibacterial fabric can be prepared. Compared with traditional inorganic and organic antibacterial agents, graphene is basically free from cytotoxicity and is more suitable for direct contact with human skin and has skin-friendly and skin-nourishing effect.

### Intelligent textiles

Under the condition of not affecting the comfort and washing of the fabric, the fabric can be connected with the micro chip to make the wearable intelligent electronic clothing. When graphene is used in textile materials, it can be made into softer, smaller electronic components that are more flexible, flexible and functionally stable in smart clothing. These textiles have potential applications in healthcare, high-performance sportswear, wearable displays and military clothing equipment.



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# Graphene far infrared antiseptic therapy socks





# Graphene far infrared antiseptic therapy socks



**舒适亲肤更健康**

采用矿物质石墨烯面料保暖舒适，防静电抗电磁

保暖舒适

远红外微循环

防静电抗电磁

除湿透气

抗菌除味

Graphene far infrared antiseptic therapy socks

**怕臭脚 · 穿烯袜**

石墨烯边“抑”边“清”除臭科技袜

"ANTI" EDGE "QING" DEODORIZING SOCK

Graphene far infrared antiseptic therapy socks

多日防臭 更强发热 强效抑菌 吸湿透气 柔软舒适

格瑞芬石墨烯抗菌保暖毛圈袜  
让您末端血液循环起来!

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GRAPHENE 格瑞芬

**远红外发射波：生命光波**

黑科技 新材料 真正的好袜子

Graphene far infrared antiseptic therapy socks

# Functional characteristics of graphene far-infrared antiseptic physiotherapy socks

- deodorization  
1, deodorant: wear graphene therapy socks can  
Effectively improve beriberi, foot odor, cold hands and feet, etc  
Symptoms, long-term wear can solve your stink forever  
Feet trouble!

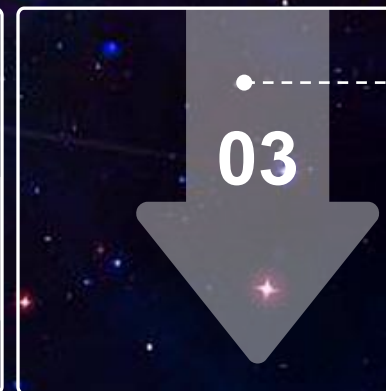
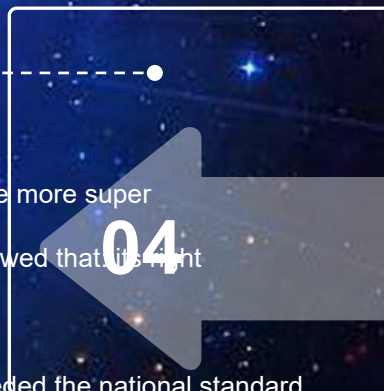


Moisture absorption perspiration

Breathable, sweat absorption; Soft and comfortable, breathable and sweat absorbing

It's super strong (one gram of graphene can absorb 50 grams of water).

- Antibacterial antibacterial  
Antibacterial; Graphene far infrared therapy socks are more super  
Strong antimicrobial and bacteriostasis, test data showed that its  
Candida albicans, Staphylococcus aureus, E. coli  
Bacteria in antibacterial and bacteriostasis has exceeded the national standard



Far-infrared microcirculation function;

The far infrared wavelengths generated by graphene are at their best,

It is also the best far infrared health band, graphene far infrared physiotherapy socks

Make the human foot capillary dilate, promote blood circulation, strengthen

The metabolism between the various tissues, improve the immunity of the body.

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